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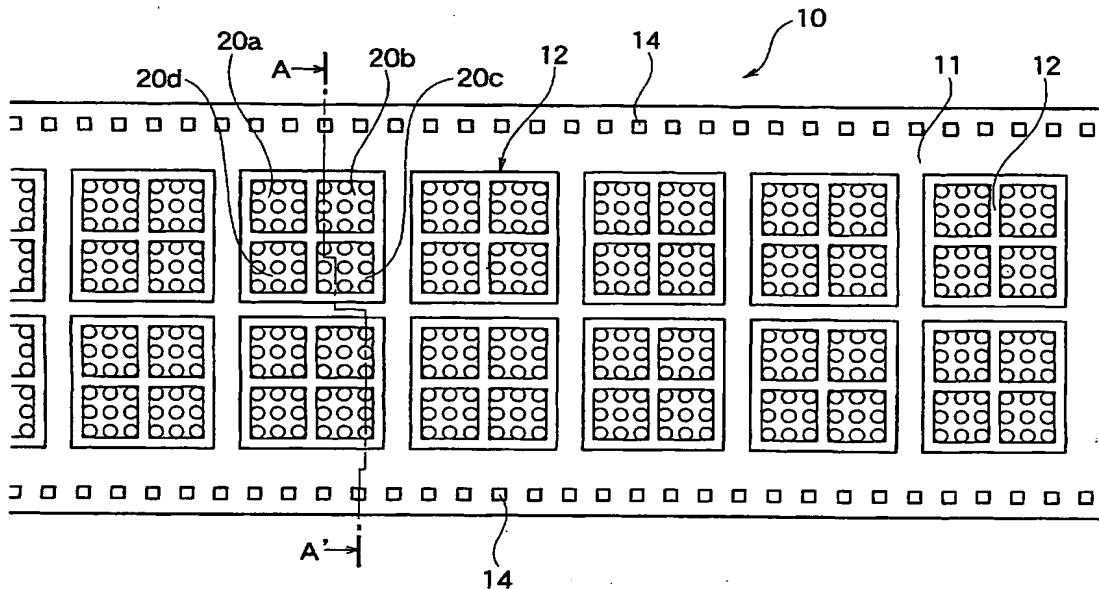
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- (51) 国際特許分類⁷: H01L 21/60, 23/12 (72) 発明者; および
(21) 国際出願番号: PCT/JP2003/012972 (75) 発明者/出願人 (米国についてのみ): 川崎 秀一
(KAWASAKI, Shuichi) [JP/JP]; 〒141-8584 東京都品川区大崎一丁目11番1号 三井金属鉱業株式会社
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(25) 国際出願の言語: 日本語 (74) 代理人: 鈴木 俊一郎 (SUZUKI, Shunichiro); 〒141-0031 東京都品川区西五反田七丁目13番6号 五反田山崎ビル6階 鈴木国際特許事務所 Tokyo (JP).
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(71) 出願人 (米国を除く全ての指定国について): 三井金属鉱業株式会社 (MITSUI MINING & SMELTING CO., LTD.) [JP/JP]; 〒141-8584 東京都品川区大崎一丁目11番1号 Tokyo (JP).
2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: FILM CARRIER TAPE FOR MOUNTING ELECTRONIC COMPONENT

(54) 発明の名称: 電子部品実装用フィルムキャリアテープ



(57) Abstract: A film carrier tape for mounting electronic components having a large number of wiring patterns of a conductive metal formed on the surface of a long insulating film, characterized in that each wiring pattern is covered independently with a solder resist layer except for the part of connecting terminal, and the solder resist layer formed on the surface of each wiring pattern is divided into a plurality of sections. Warp can be reduced in the film carrier tape for mounting a large number of electronic components cut in the widthwise direction as with the case of CSP, COF, BGA, or the like.

(57) 要約: 本発明の電子部品実装用フィルムキャリアテープは、長尺の絶縁フィルムの表面に導電性金属からなる多数の配線パターンが形成されてなる電子部品実装用フィルムキャリアテープにおいて、該それぞれの配線パターンが、

[続葉有]

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/12972

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H01L21/60, 23/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ H01L21/60, 23/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 6-5662 A (Hitachi Cable, Ltd.), 14 January, 1994 (14.01.94), Column 4, line 45 to column 5, line 34; Fig. 2 (Family: none)	1, 3, 5, 8, 9 2
Y	JP 5-29395 A (Mitsui Mining & Smelting Co., Ltd.), 05 February, 1993 (05.02.93), Column 3, line 30 to column 4, line 20; Figs. 2 to 4 (Family: none)	2
A	JP 60-216573 A (Suwa Seikosha Kabushiki Kaisha), 30 October, 1985 (30.10.85), (Family: none)	1-9

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
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Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/12972

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 11-145205 A (Hitachi Cable, Ltd.), 28 May, 1999 (28.05.99), (Family: none)	1-9